TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-02-09-01** **Date: 11-03-2017**
Customer	:	Asisstant Eexecutive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Repairs to Anganavadi Building in Ward No.11 (Kuvempunagara) in Vidyaranyapura Sub Division.
Agency	:	V Mohan Kumar #530, Kaliyamma temple road, Kuvempunagar 2nd Stage, Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/180/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-02-2017
Sample ID No	:	2017-02-09-01-01
Sample Type	:	ACC 53 grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	10-02-2017 to 10-03-2017

AEE (VRP) SD

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	3.4	–
2	Finess by Air permeablity method (m2/kg, Min)	278.5	225m^2/kg, Min
3	Density (gm/cc)	3.23	–
4	Standard Consistency (%)	28.5	Not specified
5	Initial Setting time	295 minutes	Not less than 30 minutes

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2017-02-09-01** **Date: 11-03-2017**

Sample ID No : **2017-02-09-01-01**

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
6	Final Setting time	335 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm
8	Compressive Strength		
	3 Days	27.5N/mm^2	Not less than 27 N/mm^2
	7 Days	38.5N/mm^2	Not less than 37 N/mm^2
	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

Note:
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Prepared by
Harshitha

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K KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-04-01-03** **Date: 05-04-2017**

Customer : Asisstant Eexecutive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repairs to Anganavadi Building in Ward No.11 (Kuvempunagara) in Vidyaranyapura Sub Division.

Agency : V Mohan Kumar #530, Kaliyamma temple road, Kuvempunagar 2nd Stage, Bangalore.

Customer's Reference : BBMP/EE/BTP/WO/180/2016-17

Source of Sample : Sample supplied by the Agency

Sample Condition : Satisfactory

Date of Receipt : 01-04-2017

Sample ID No : 2017-04-01-03-01

Customer ID : Cement Cocnrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/04/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Cocnrete Pavement	M20	28/03/2017	04/04/2017	150.30 X 150.35 X 150.25	22598	8.170	298.3	13.2	13.6
2	Cement Cocnrete Pavement	M20	28/03/2017	04/04/2017	150.34 X 150.79 X 150.32	22670	8.280	308.3	13.6	
3	Cement Cocnrete Pavement	M20	28/03/2017	04/04/2017	150.23 X 150.30 X 150.40	22580	8.300	313.9	13.9	

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Prepared by
Harsitha

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Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-04-01-03** **Date: 26-04-2017**

Customer : Asisstant Eexecutive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repairs to Anganavadi Building in Ward No.11 (Kuvempunagara) in Vidyaranyapura Sub

Agency : V Mohan Kumar #530, Kaliyamma temple road, Kuvempunagar 2nd Stage, Bangalore.

Customer's Reference : BBMP/EE/BTP/WO/180/2016-17

Source of Sample : Sample supplied by the Agency

Sample Condition : Satisfactory

Date of Receipt : 01-04-2017

Sample ID No : 2017-04-01-03-02

Customer ID : Cement Cocnrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 25/04/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Cement Cocnrete Pavement	M20	28/03/2017	25/04/2017	150.37 X 150.29 X 150.22	22599	8.200	488.1	21.6	21.8
2	Cement Cocnrete Pavement	M20	28/03/2017	25/04/2017	150.17 X 150.33 X 150.90	22575	8.300	492.1	21.8	
3	Cement Cocnrete Pavement	M20	28/03/2017	25/04/2017	150.45 X 150.65 X 150.80	22665	8.115	500.9	22.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-03-23-01** **Date: 19-04-2017**

Customer : Asisstant Eexecutive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repairs to Anganavadi Building in Ward No.11 (Kuvempunagara) in Vidyaranyapura Sub Division.

Agency : V Mohan Kumar #530, Kaliyamma temple road, Kuvempunagar 2nd Stage, Bangalore.

Customer's Reference : BBMP/EE/BTP/WO/180/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-03-2017

Sample ID No : 2017-03-23-01-02

Customer ID : Footing Cocnrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/04/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing Cocnrete	M20	21/03/2017	18/04/2017	150.45 X 150.78 X 150.29	22685	8.116	487.7	21.5	21.8
2	Footing Cocnrete	M20	21/03/2017	18/04/2017	150.00 X 150.70 X 150.40	22605	8.320	492.8	21.8	
3	Footing Cocnrete	M20	21/03/2017	18/04/2017	150.60 X 150.39 X 150.20	22649	8.180	500.5	22.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-03-23-01** **Date: 29-03-2017**

Customer : Asisstant Eexecutive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repairs to Anganavadi Building in Ward No.11 (Kuvempunagara) in Vidyaranyapura Sub Division.

Agency : V Mohan Kumar #530, Kaliyamma temple road, Kuvempunagar 2nd Stage, Bangalore.

Customer's Reference : BBMP/EE/BTP/WO/180/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-03-2017

Sample ID No : 2017-03-23-01-01

Customer ID : Footing Cocnrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/03/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing Cocnrete	M20	21/03/2017	28/03/2017	150.32 X 150.56 X 150.23	22632	8.230	307.8	13.6	14.1
2	Footing Cocnrete	M20	21/03/2017	28/03/2017	150.89 X 150.43 X 150.25	22698	8.340	322.3	14.2	
3	Footing Cocnrete	M20	21/03/2017	28/03/2017	150.45 X 150.97 X 150.15	22713	8.260	327.1	14.4	

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-03-06-03** **Date: 13-03-2017**
Customer	:	Asisstant Eexecutive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Repairs to Anganavadi Building in Ward No.11 (Kuvempunagara) in Vidyaranyapura Sub Division.
Agency	:	V Mohan Kumar #530, Kaliyamma temple road, Kuvempunagar 2nd Stage, Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/180/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-03-2017
Sample ID No	:	2017-03-06-03-04
Sample Type	:	Indus Fe 500
Reference to BIS codes	:	IS 1786-2008
Date of test:	:	07-03-2017

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Indus	Fe500	10mm	0.612	554	665	21.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Indus	Fe500	10mm	Satisfactory	Satisfactory

Note:
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Quality Manager

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Harshitha

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-03-06-03** **Date: 13-03-2017**
Customer	:	Asisstant Eexecutive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Repairs to Anganavadi Building in Ward No.11 (Kuvempunagara) in Vidyaranyapura Sub Division.
Agency	:	V Mohan Kumar #530, Kaliyamma temple road, Kuvempunagar 2nd Stage, Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/180/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-03-2017
Sample ID No	:	2017-03-06-03-05
Sample Type	:	Indus Fe 500
Reference to BIS codes	:	IS 1786-2008
Date of test:	:	07-03-2017

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Indus	Fe500	12mm	0.883	572	680	21.5%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Indus	Fe500	12mm	Satisfactory	Satisfactory

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Authorized Signature
Quality Manager

End of Report

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-03-06-03** **Date: 14-03-2017**

Customer : Asisstant Eexecutive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Repairs to Anganavadi Building in Ward No.11 (Kuvempunagara) in Vidyaranyapura Sub Division.

Agency : V Mohan Kumar #530, Kaliyamma temple road, Kuvempunagar 2nd Stage, Bangalore.

Customer's Reference : BBMP/EE/BTP/WO/180/2016-17

Source of Sample : Sample supplied by the Agency

Sample Condition : Satisfactory

Date of Receipt : 06-03-2017

Sample ID No : 2017-03-06-03-02

Sample Type : Fine Aggregates

Reference to BIS codes : IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete
IS: 2386 :1963(Part - 1, 2, 3) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities.
IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation

Date of test : 07-03-2017

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:1970			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	38	38	3.8	96.2	90-100	90-100	90-100	95-100
3	2.36 mm	110	148	14.8	85.2	60-95	75-100	85-100	95-100
4	1.18 mm	110	258	25.8	74.2	30-70	55-90	75-100	90-100
5	600 micron	164	422	42.2	57.8	15-34	35-59	60-79	80-100
6	300 micron	290	712	71.2	28.8	5-20	8-30	12-40	15-50
7	150 micron	210	922	92.2	7.8	0-10	0-10	0-10	0-15
8	Pan	78	1000	100	0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-03-06-03** **Date: 14-03-2017**

Sample ID No : 2017-03-06-03-02

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970 (RA2016)
1	Water Absorption(%)	2.1	_
2	Specific Gravity	2.57	_
3	Material finer than 75 micron(%)	3.2	Not more than 15 percent

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Quality Manager

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2017-03-06-03** **Date: 14-03-2017**
Customer	:	Asisstant Eexecutive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Repairs to Anganavadi Building in Ward No.11 (Kuvempunagara) in Vidyaranyapura Sub Division.
Agency	:	V Mohan Kumar #530, Kaliyamma temple road, Kuvempunagar 2nd Stage, Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/180/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-03-2017
Sample ID No	:	2017-03-06-03-03
Sample Type/Size	:	Solid concrete blocks of size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex - E Clause 9.5 and 10)
Date of test	:	07-03-2017

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185 (Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	401	202	200	16200	32.260	1991.3	1953.0	Not less than 1800Kg/m^3
2	400	203	202	16402	31.880	1943.6		
3	402	201	201	16241	31.250	1924.1		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185 (Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.920	32.890	3.13	3.51	Shall not be more than 10% by mass
2	32.990	31.870	3.51		
3	32.450	31.240	3.87		

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Lab ID : **CP-2017-03-06-03** **Date: 14-03-2017**

Sample ID No : **2017-03-06-03-03**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	400	202	200	**Length : ± 5mm** **Breadth : ± 3mm** **Height : ± 3mm**
2	401	201	202	
3	401	201	201	
4	402	201	201	
5	403	203	202	
6	404	200	203	
7	402	200	203	
8	402	202	204	
9	400	203	201	
10	401	201	200	
11	401	201	203	
12	400	203	203	
13	400	202	203	
14	402	201	201	
15	402	201	204	
16	403	200	202	
17	401	200	201	
18	401	201	201	
19	401	202	202	
20	400	203	201	
Average of 20 blocks	**401**	**201**	**202**	

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Lab ID : **CP-2017-03-06-03** **Date: 14-03-2017**

Sample ID No : 2017-03-06-03-03

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	202	80800	310.5	3.8	4.3
2	401	201	80601	330.0	4.1	
3	401	201	80601	324.5	4.0	
4	402	201	80802	375.2	4.6	
5	403	203	81809	360.7	4.4	
6	404	200	80800	355.9	4.4	
7	402	200	80400	310.9	3.9	
8	402	202	81204	389.2	4.8	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

Note:
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Quality Manager

****End of Report****

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-03-06-03** **Date: 13-03-2017**
Customer	:	Asisstant Eexecutive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Repairs to Anganavadi Building in Ward No.11 (Kuvempunagara) in Vidyaranyapura Sub Division.
Agency	:	V Mohan Kumar #530, Kaliyamma temple road, Kuvempunagar 2nd Stage, Bangalore.
Customer Reference	:	BBMP/EE/BTP/WO/180/2016-17
Source of Sample	:	Sample supplied by the Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-03-2017
Sample ID No	:	2017-03-06-03-01(a)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation
Date of test	:	**06-03-2017**

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken: **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970
1	40 mm	0	0	0	100	100
2	20 mm	186	186	3.72	96.28	95-100
3	10 mm	2387	2573	51.46	48.54	25-55
4	4.75 mm	2310	4883	97.66	2.34	0-5
5	Pan	117	5000	100	0	–

CIVIL Pro Sig..... Date..... BANGALORE

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-03-06-03** **Date: 13-03-2017**

Sample ID No : 2017-03-06-03-01(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970
1	Flakiness Index(%)	**13.1**	_
2	Elongation Index(%)	**12.4**	_
3	Specific Gravity	**2.61**	_
4	Bulk Density(Loose) (Kg/l)	**1.53**	_
5	Bulk Density(Compacted) (Kg/l)	**1.51**	_
6	Water Absorption(%)	**0.26**	_
7	Ten percent fine value(KN)	**193**	_
8	Aggregate crushing Value(%)	**23.8**	Shall not exceed 45% by weight for aggregates used for concrete other than for wearing surface and 30% by weight for concrete for wearing surfaces such as runways, roads, pavements
9	Aggregate Impact Value(%)	**22.9**	Shall not exceed 45% by weight for aggregates used for concrete other than for wearing surface and 30% by weight for concrete for wearing surfaces such as runways, roads, pavements

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Prepared by
Harshitha

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signature
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-03-06-03** **Date: 13-03-2017**
Customer	:	Asisstant Eexecutive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Repairs to Anganavadi Building in Ward No.11 (Kuvempunagara) in Vidyaranyapura Sub Division.
Agency	:	V Mohan Kumar #530, Kaliyamma temple road, Kuvempunagar 2nd Stage, Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/180/2016-17
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	06-03-2017
Sample ID No	:	2017-03-06-03-01(b)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation
Date of test	:	**06-03-2017**

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken: **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970
1	80 mm	0	0	0	100	100
2	40 mm	180	180	3.6	96.4	95-100
3	20 mm	1930	2110	42.2	57.8	30-70
4	10 mm	1880	3990	79.8	20.2	10-35
5	4.75 mm	720	4710	94.2	5.8	0-5
6	Pan	290	5000	100	0.0	---

CIVIL PRO BANGALORE Sig..... Date.....

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-03-06-03** **Date: 13-03-2017**

Sample ID No : 2017-03-06-03-01(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970
1	Flakiness Index(%)	**12.8**	_
2	Elongation Index(%)	**12.1**	_
3	Specific Gravity	**2.65**	_
4	Bulk Density(Loose) (Kg/l)	**1.47**	_
5	Bulk Density(Compacted) (Kg/l)	**1.49**	_
6	Water Absorption(%)	**0.22**	_

Note:

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Samples will be disposed after 30 days from the date of issue of test certificate

Prepared by
Harshitha

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AEE (VRP) SD

****End of Report****